



GEN DOX N2

113



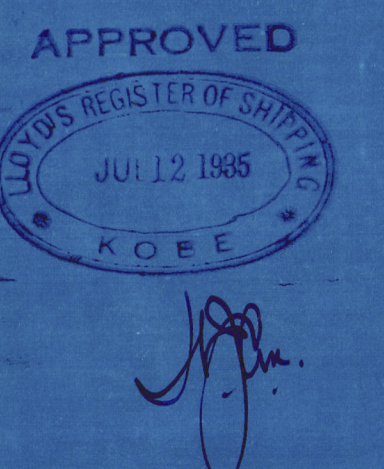
AKAGI MARU
ARIMA MARU



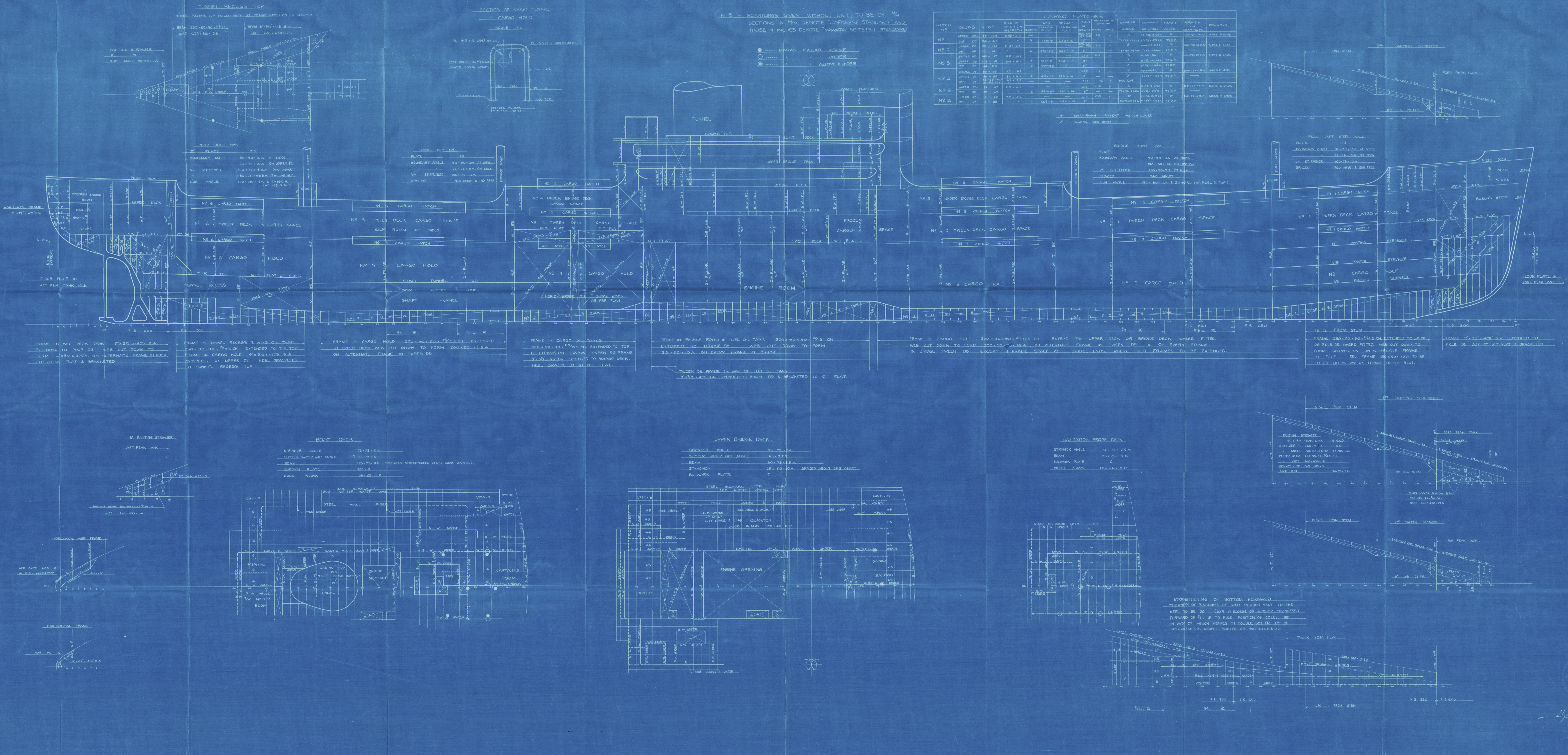
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CARGO HATCHES									
HATCH NO.	DECK	F NO.	SIZE OF HATCH (IN FEET)	WEB BEAM NUMBER	HEIGHT OF HATCH (IN FEET)	WIDTH OF HATCH (IN FEET)	CARRIER	TO ANGLE	REMARKS
Nº 1	UPPER DS	15-16	35.5 x 30	3	15.0	30.0	15.0	15.0	15.0
Nº 2	UPPER DS	17-18	11.3 x 4.1	4	15.0	11.3	15.0	15.0	15.0
Nº 3	UPPER DS	19-20	6.8 x 4.1	5	15.0	6.8	15.0	15.0	15.0
Nº 4	UPPER DS	21-22	6.8 x 4.1	6	15.0	6.8	15.0	15.0	15.0
Nº 5	UPPER DS	23-24	13.2 x 4.1	7	15.0	13.2	15.0	15.0	15.0
Nº 6	UPPER DS	25-26	4.6 x 4.1	8	15.0	4.6	15.0	15.0	15.0



NAGASAKI Pt No 2203

S. No. 628.

M.S. "ARIMA MARU."

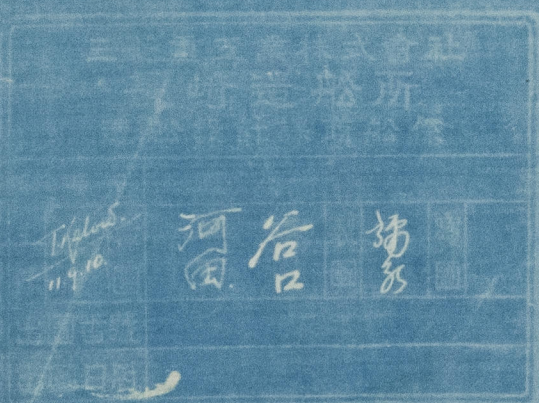
CONSTRUCTION PROFILE
& DECK PLAN.

SCALE 1/100

SHEET II

140M. x 19M. x 10.5M.

(FINISHED PLAN.)



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006589-006600-0198

Nagasaki Pt No 2203

S. No. 628.

M.S. "ARIMA MARU."

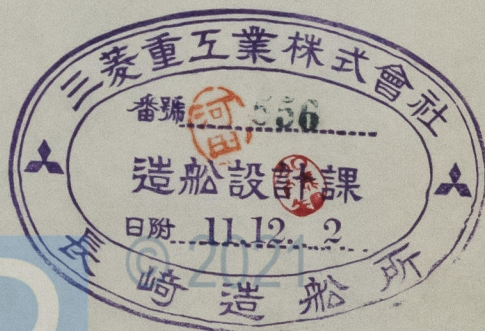
MIDSHIP SECTION.

SCALE 1/25.

140M x 19M x 10.5M.

(FINISHED PLAN.)

三菱重工業株式會社			
長崎造船所			
設計課			
番號 河谷 瑞			
附 11.12.2			
長崎造船所			



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006589-006600-0199

LLOYD'S CLASS 100 A 1

N.B. :- SCANTLINGS GIVEN WITHOUT UNIT TO BE OF M/M
SECTIONS IN M/M DENOTE "JAPANESE STANDARD" AND
THOSE IN INCHES DENOTE "YAWATA SEITETSU STANDARD"

PRINCIPAL DIMENSIONS		
LENGTH P.P.	L	140 ^M
BREADTH MOULDED	B	19 ^M
DEPTH	TO UPPER DECK D	10 ^M
"	TO BRIDGE DECK D'	12.95 ^M
DRAUGHT	EXTREME	8.335 ^M

SCANTLING NUMERALS		
1ST LONGITUDINAL NUMERAL	L x D	1.470
2ND	L x (B + D)	6.130
PROPORTION TO UPPER DECK	V/D	1.33
"	BRIDGE DECK	10.81
% OF LENGTH OF SUPER STRUCTURE TO L		54%

=		EQUIPMENT NUMBER	
L x (B + D)	141 x (19 + 10.5)	=	4.159.5
F.C.L.E	126.1230 x $\frac{3}{4}$	=	23.46
POOP	71.1230 x $\frac{3}{4}$	=	12.25
BRIDGE DECK	56.8.2.45.3 x $\frac{3}{4}$	=	104.37
"	" HOUSE	29.2.35.3 x $\frac{3}{4}$	= 34.08
UPPER BRIDGE DECK HOUSE	29.6.2.35.3 x $\frac{3}{4}$	=	33.61
BOAT DECK HOUSE	27.2.35.3 x $\frac{1}{2}$	=	11.40
CASING TOP	112.2.30.3 x $\frac{1}{2}$	=	1.68
HOSPITAL	40.2.30.3 x $\frac{1}{2}$	=	4.6
SUM.			4.384.75

EQUIPMENTS		
3-BOWER ANCHORS STOCKLESS	COLLECTIVE WT 12.420	
1-STREAM ANCHOR ORDINARY	EX. STOCK 1.125	
STUD CHAIN CABLE	350 ^M 44D	
STEEL WIRE FOR STREAM ANCHOR (SPECIAL FLEXIBLE)	225 ^M 38D	
TOWLINE STEEL WIRE (SPECIAL FLEXIBLE)	240 ^M 44D	
HAWSER (SPECIAL FLEXIBLE STEEL W.R.)	3-185 ^M 24D	

WARPS (MANILA)	4-185 ^M 65D
(SPECIAL FLEXIBLE STEEL W.R.)	2-185 ^M 22D
* SPECIALLY INCREASED IN NUMBER AND SIZE TO OWNERS' REQUIREMENTS	

FORGING & CASTING		
STEM: FORGED STEEL WITH FASHION PLATE		
AS PER PLAN (RULE SIZE 260 x 70)		
STERN FRAME: STEEL CAST (RULE SIZE 280 x 225)		
RUDDER: " " (RULE SIZE 280 x 225)		
DETAILS AS PER PLAN		

KEEL & SHELL PLATING		
KEEL PLATE	1300 x 22.5 ~ 20.5	
BOTTOM	18 ~ 13	
SIDE	17.5 ~ 12	
POOP	20	
F.C.L.E SIDE PLATE	11	
BRIDGE	10.5	
POOP	10	
SHEER STRAKE	1.960 x 28 ~ 12	
STRAKE BELOW SHEER STRAKE	2.130 x 17.5 ~ 12	
SHEER STRAKE DOUBLED AT BRIDGE ENDS WITH PLATE 17.5		

ENGINE CASING		
COAMING PLATE	7.5 : (8.5 WHERE EXPOSED)	
CASING	6.5	
COAMING ANGLE	75 x 75 x 9 A	
STIFFENERS	75 x 65 x 8 A OR 75 x 9 F.B	
SPACING	ABOUT 800	

DOUBLE BOTTOM		
CENTRE GIRDER	PLATE	1170 x 13.5 ~ 11.5
KEEL ANGLE	30 x 30 x 13.5 A-12.5 A	130 x 130 x 13.5 A
TOP	75 x 75 x 11.5 A	90 x 90 x 12.5 A
VERT.	20 x 20 x 11.5 A	130 x 130 x 12.5 A
SIDE GIRDER	PLATE	95 ~ 11.5
BOTTOM ANGLE	70 x 70 x 11.5 A	90 x 90 x 11.5 A
TOP	70 x 75 x 11.5 A	AS PER PLAN
VERT.	75 x 75 x 10 A	130 x 130 x 12.5 A
SOLID FLOOR	PLATE	11 ~ 12
FRAME	20 x 20 x 11.5 A	90 x 90 x 11.5 A
REV. FRAME	20 x 75 x 11.5 A	130 x 130 x 12.5 A
W.T. FLOOR	PLATE	12.5
BOUNDARY A	20 x 20 x 12.5 A	90 x 90 x 12.5 A
STIFFENER	150 x 75 x 8.5 A	200 x 75 x 10.5 A
INNER M.L. STRAKE	1350 x 13 ~ 11	13.5
OTHER	11.5 ~ 10.5 x 10	13.5
POOP PLATE	975 x 14	14
TOP BOTTOM	130 x 130 x 13.5 A	130 x 130 x 13.5 A
N.B. - DETAILS OF ENGINE SEATING AND OPEN FLOOR AS PER PLAN		

STRENGTHENING OF BOTTOM FORWARD		
FROM FORWARD OF 1/2 L. TO COLLISION BWP		
PITCH OF RIVET IN FRAMES 1/2 D (EACH ARMS OF DOUBLE ANGLE FRAMES)		
FROM MARGIN PLATE TO MARGIN PLATE		
INTERCOSTAL SIDE GIRDERS		
FITTED NOT MORE THAN 10.50 APART & HALF HEIGHT		
GIRDERS EXTENDED AS FAR FORWARD AS PRACTICABLE		
SHELL PLATING - THREE STRAKES NEXT TO THE KEEL		
20 IN THICKNESS (10% IN EXCESS OF MIDSHIP THICKNESS)		
ESPECIALLY 25 IN THICKNESS IN WAY OF BOTTOM FLAT PART		

FRAMING		
FRAME	DEPTH (d)	
IN WAY OF CARGO HOLD	6.46 ^M	
" " ENGINE SPACE	5.77 ^M	
" " DEEP FRAME	7.5 ^M	
FRAME	SPACE	
BOTH PEAKS	600	
F.N. 142 - COLLISION BWP	650	
OTHER SPACE	800 (RULE 76.75)	

TANK SIDE BRACKET & GUSSET ATTACHMENT		
TANK SIDE BKT.	12.5	11.5
GUSSET PLATE	CONTINUOUS	CONTINUOUS
NE OF TOP FRAME	16-22.0 RIV	17-22.0 RIV
NE OF BOTTOM	17-22.0 RIV	18-22.0 RIV
RIVET TO GUSSET	8-22.0 RIV	40-22.0 RIV
TO ANGLE	25-32.0 RIV	15-22.0 RIV
TO PLATE	14-22.0 RIV	14-22.0 RIV
HT OF TANK SIDE BKT	2.850	1.800
HERE A ON CASE	130 x 130 x 13.5 A	130 x 130 x 13.5 A
" " FL PL	130 x 130 x 13.5 A	130 x 130 x 13.5 A
" " FL PL	130 x 130 x 13.5 A	130 x 130 x 13.5 A
" " FL PL	130 x 130 x 13.5 A	130 x 130 x 13.5 A

WHERE TANK TOP IS FLAT, TANK SIDE BRACKET	
EXTEND 250 ABOVE TANK TOP	

DECK HOUSES		
UPPER DECK	BRIDGE DECK	UP BRIDGE DECK
COAMING PLATE	7	8
HOUSE PLATE	6	7
COAMING ANGLE	75 x 75 x 8 A	130 x 130 x 12.5 A
TOP ANGLE	75 x 75 x 8 A	130 x 130 x 12.5 A
STIFFENERS	75 x 9 F.B	75 x 9 F.B
SPACING OF STIF.	800	

BILGE KEEL		
LENGTH	35.2 ^M (F.62 - F.113)	
PLATE	210 x 12.5 WITH 65 SOLID R.B. (WELDED)	
CONNECTING BAR	130 x 130 x 12 A	
DEPTH OF KEEL	550	

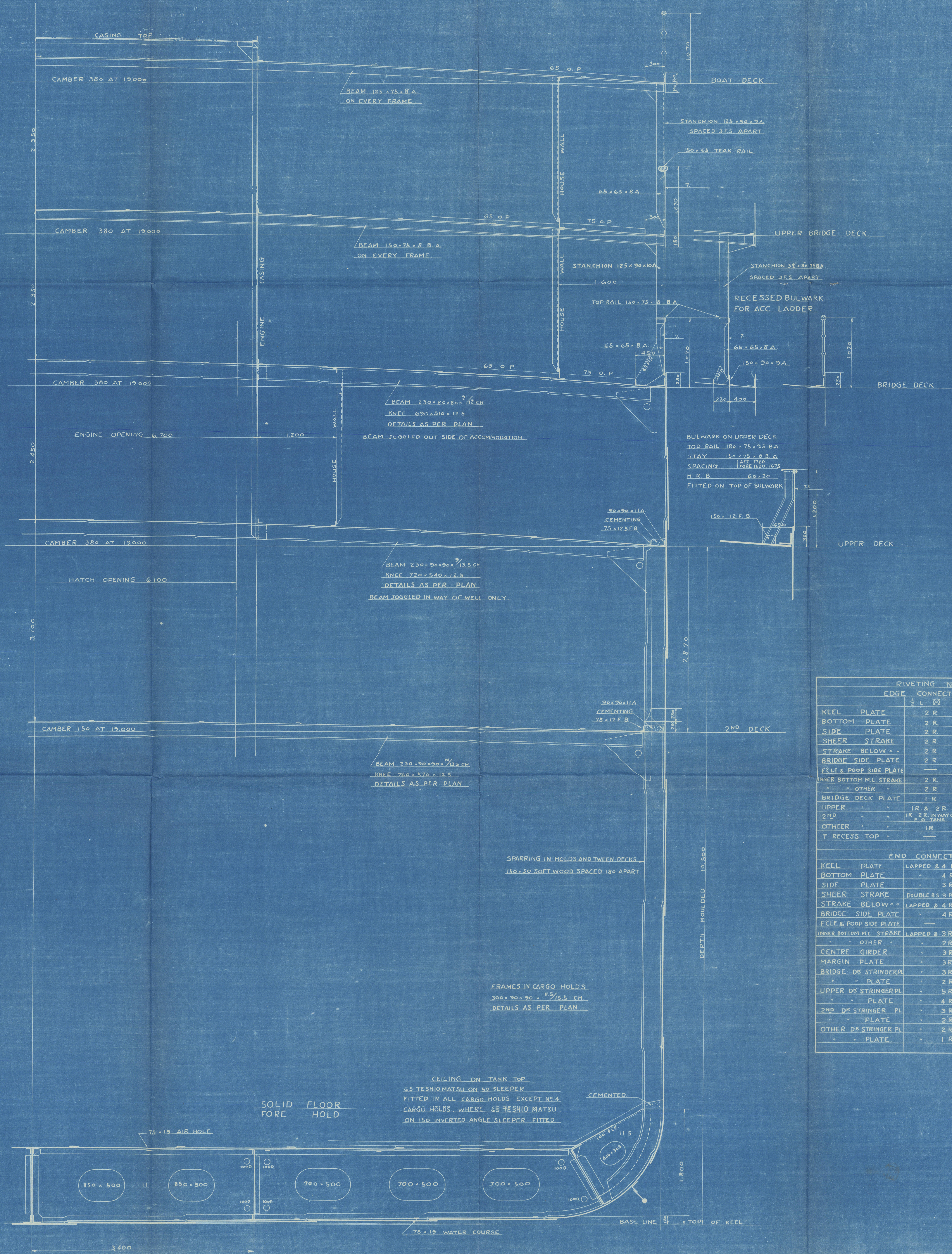
DECKS		
STRINGER PLATE	F.C.L.E DECK	POOP DECK
ANGLE	915 x 10.5	905 x 10
DECK PLATE	90 x 90 x 11 A	90 x 90 x 10 A
WITHIN LINE OF OPENING	10 x 9	10

2ND DECK		
STRINGER PLATE	CLEAR OF BRIDGE DECK	IN WAY OF BRIDGE DECK
ANGLE	1270 x 11 ~ 965 x 9	9.5
INSIDE	90 x 90 x 11 ~ 10 A	90 x 90 x 11 A
DECK PLATE	75 x 12 F.B	75 x 12 F.B
WITHIN LINE OF OPENING	8.5 ~ 8	8.5

DECK PLATES IN WAY OF OIL TANK	10.5
IN THICKNESS	

UPPER DECK		
STRINGER PLATE	CLEAR OF BRIDGE DECK	IN WAY OF BRIDGE DECK
ANGLE	2600 x 27 ~ 1650 x 11	11
INSIDE	90 x 90 x 11 ~ 10 A	90 x 90 x 11 A
DECK PLATE	75 x 12 F.B	75 x 12 F.B
WITHIN LINE OF OPENING	11.5 ~ 9	8.5
STRINGER PLATE DOUBLED AT BRIDGE ENDS WITH PLATE 18.5		

BRIDGE DECK UP BRIDGE DECK BOAT DECK		
STRINGER PLATE	1800 x 14.5	1260 x 8
ANGLE	130 x 130 x 13 A	75 x 75 x 9 A
G.W. WAY	65 x 9 F.B	65 x 9 F.B
DECK PLATE	11.5	6.5
WOODEN PLANK	75 x 12 F.B	55 x 9 F.B
CURTAIN PLATE	11.5	6.5
DECK PLATE IN WAY OF BATH & W.C.	7.5	



RIVETING NOTE		
EDGE CONNECTION		
KEEL PLATE	2 R	2 R
BOTTOM PLATE	2 R	2 R
SIDE PLATE	2 R	2 R
SHEER STRAKE	2 R	2 R
STRAKE BELOW	2 R	2 R
BRIDGE SIDE PLATE	2 R	2 R
F.C.L.E & POOP SIDE PLATE	1 R	1 R
INNER BOTTOM M.L. STRAKE	2 R	2 R
" " OTHER	2 R	2 R
BRIDGE DECK PLATE	1 R	1 R
UPPER	1 R & 2 R	1 R & 1 R
2ND	1 R & 2 R	1 R & 1 R
OTHER	1 R	1 R
T. RECESS TOP	1 R	1 R

END CONNECTION		
KEEL PLATE	LAPPED & 4 R	LAPPED & 4 R
BOTTOM PLATE	4 R	3 R & 4 R
SIDE PLATE	3 R	3 R
SHEER STRAKE	DOUBLE 3 R	4 R-3 R
STRAKE BELOW	LAPPED & 4 R	4 R-3 R
BRIDGE SIDE PLATE	4 R	3 R
F.C.L.E & POOP SIDE PLATE	LAPPED & 1 R	2 R
INNER BOTTOM M.L. STRAKE	LAPPED & 3 R	2 R
" " OTHER	2 R	2 R
CENTRE GIRDER	3 R	3 R
MARGIN PLATE	3 R	3 R
BRIDGE DE STRINGER	3 R	3 R
" " PLATE	2 R	2 R
UPPER DE STRINGER PL	5 R LAPPED & 3 R	3 R
" " PLATE	4 R	1 R
2ND DE STRINGER PL	3 R	2 R
" " PLATE	2 R	1 R
OTHER DE STRINGER PL	2 R	2 R
" " PLATE	1 R	1 R

Nagasaki 2203
S. No 628.
M.S. "ARIMA MARU"
MIDSHIP SECTION
SCALE 1/25
140^M x 19^M x 10.5^M
(FINISHED PLAN)

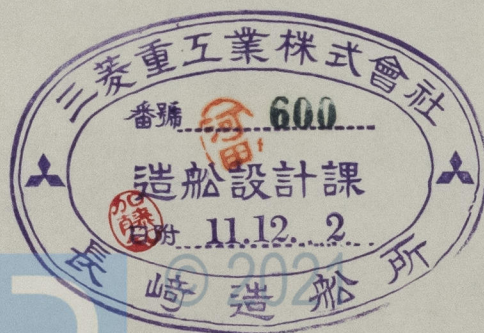


NAGASAKI Pt No. 2203

S. No. 628.
M.S. "ARIMA MARU".
STERN FRAME

SCALE 1/20
DETAIL SCALE 1/10
140M. x 19M. x 10.5M.
(FINISHED PLAN.)

三菱重工業株式會社 長崎造船所 造船設計課商船係			
送り先			
主	河	谷	播磨
住	田	口	町
1.9.9.			
出	番		
出	日		

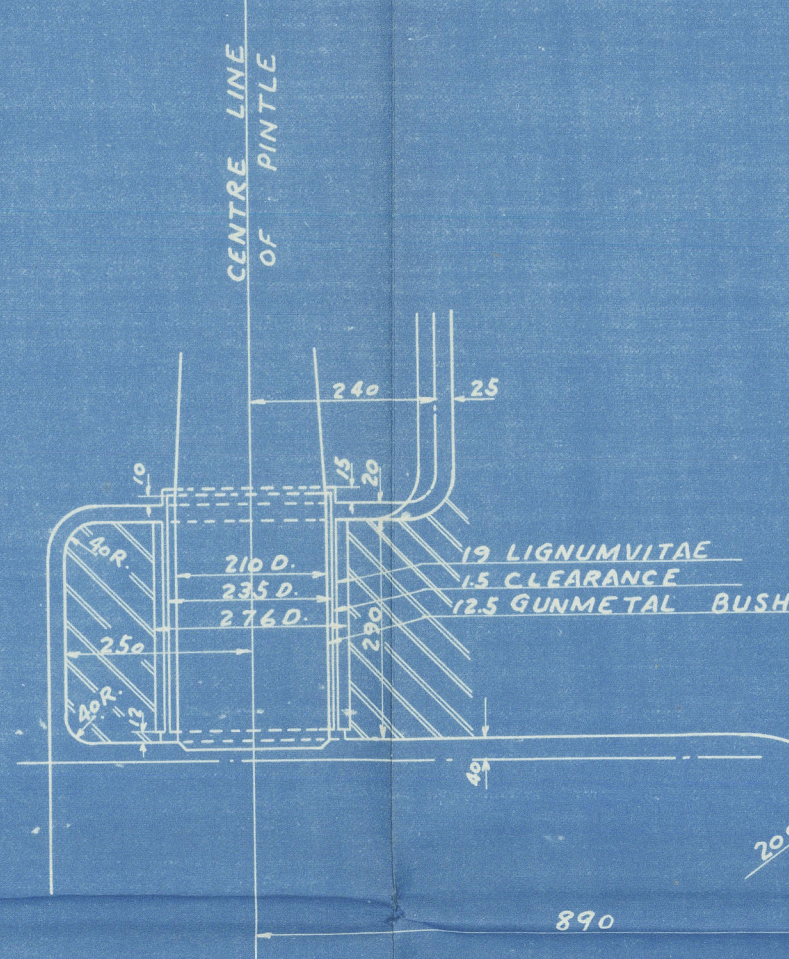


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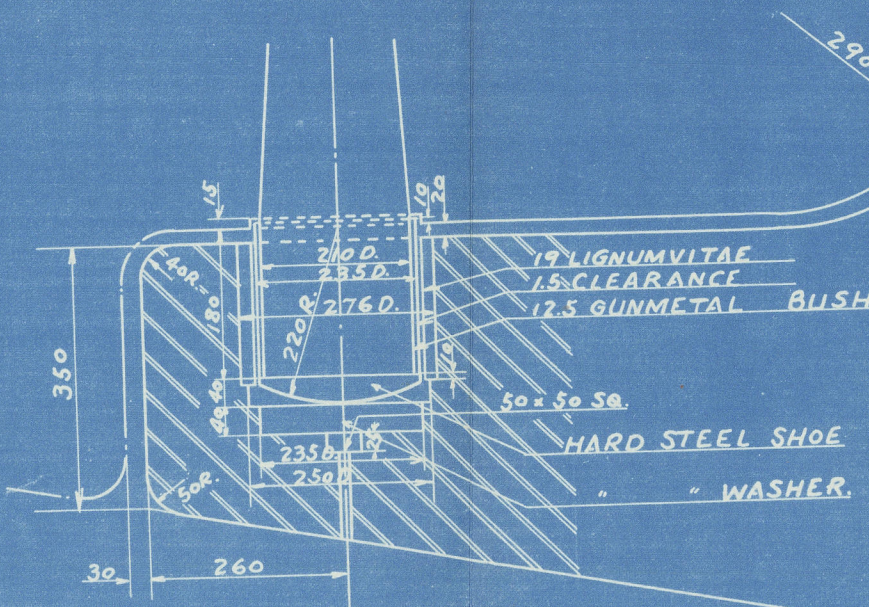
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MATERIAL ~
STERN FRAME CAST STEEL
CENTRE PIECE
WEIGHT ~
STERN FRAME 23.7 K. TONS

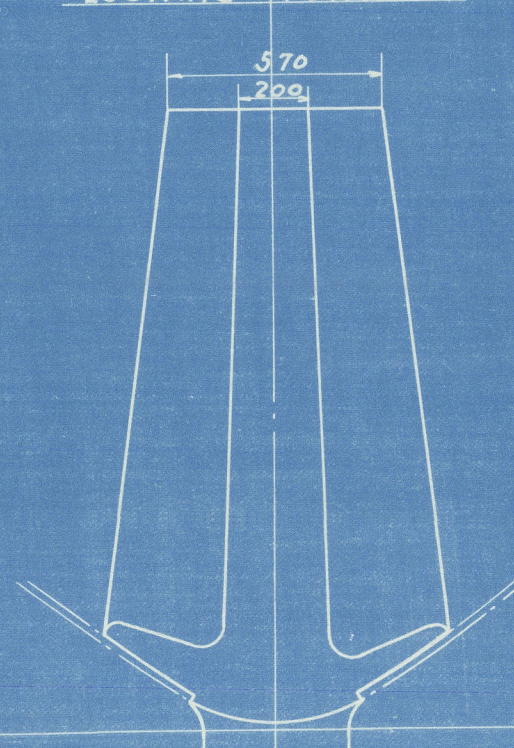
DETAIL OF UPPER GUDGEON
SCALE 1/10



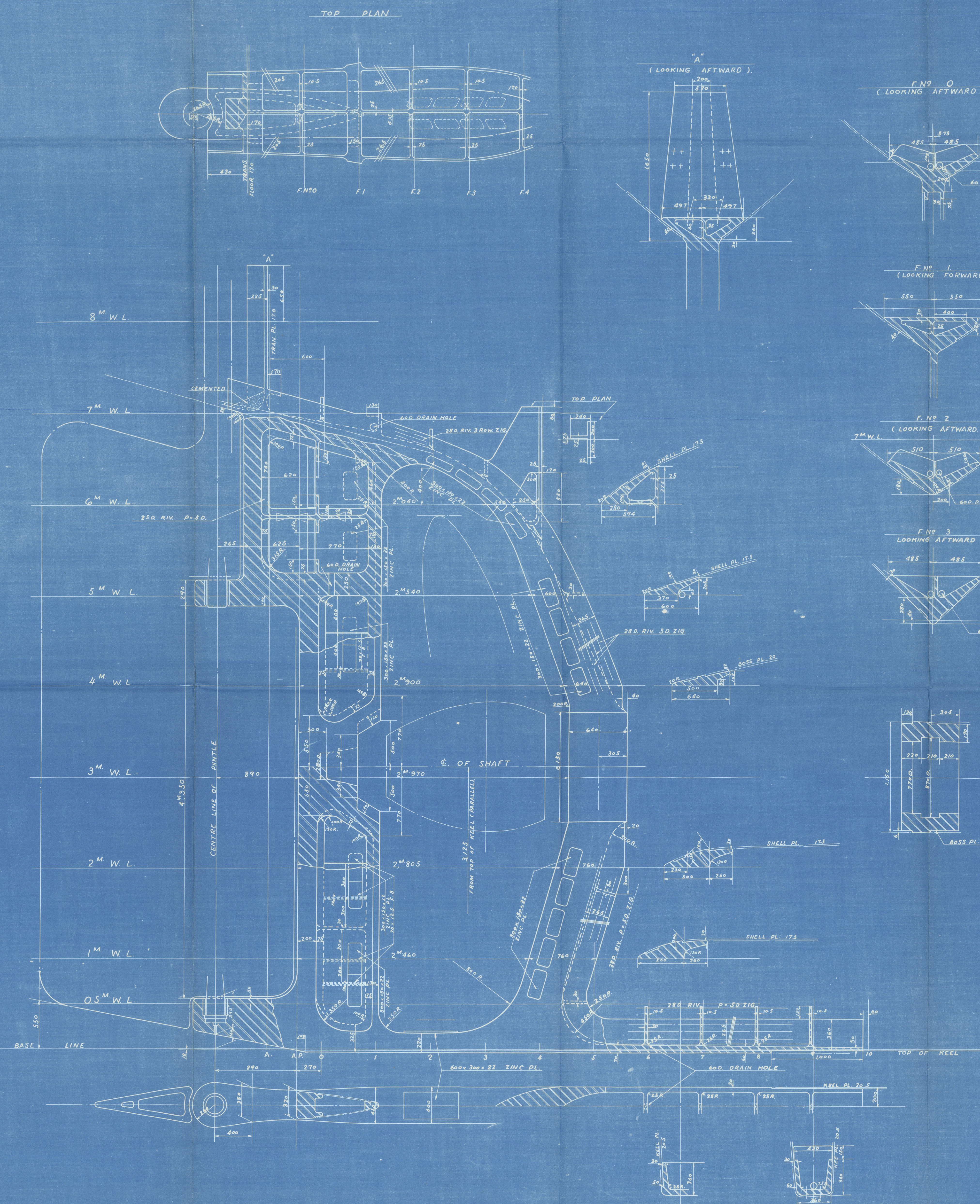
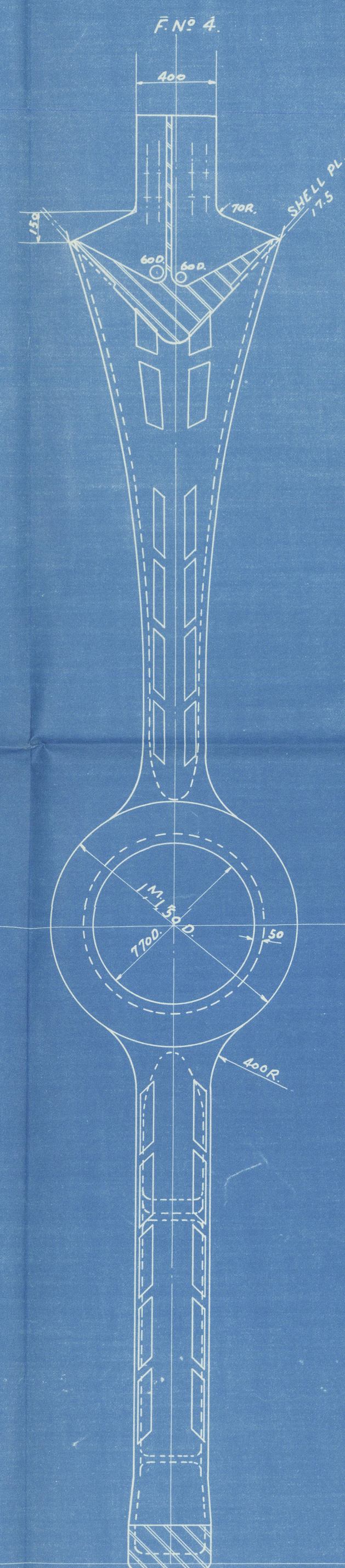
DETAIL OF BOTTOM GUDGEON
SCALE 1/10



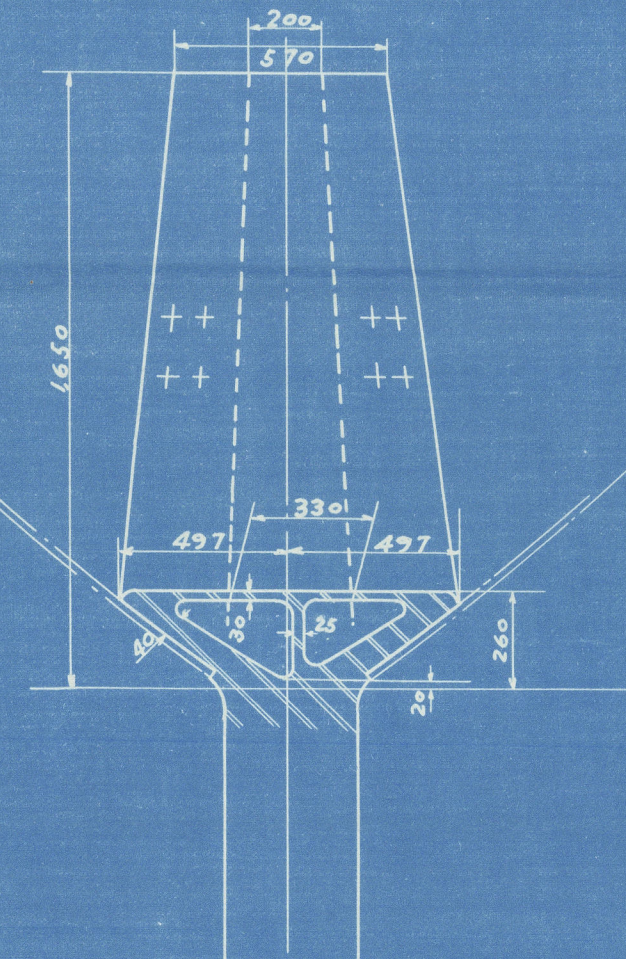
RUDDER POST
LOOKING FORWARD



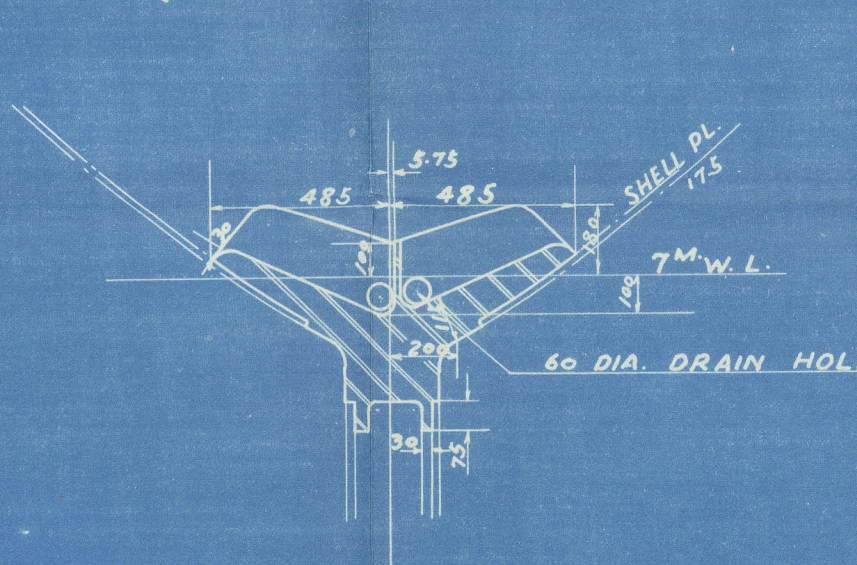
PROPELLER POST
LOOKING FORWARD



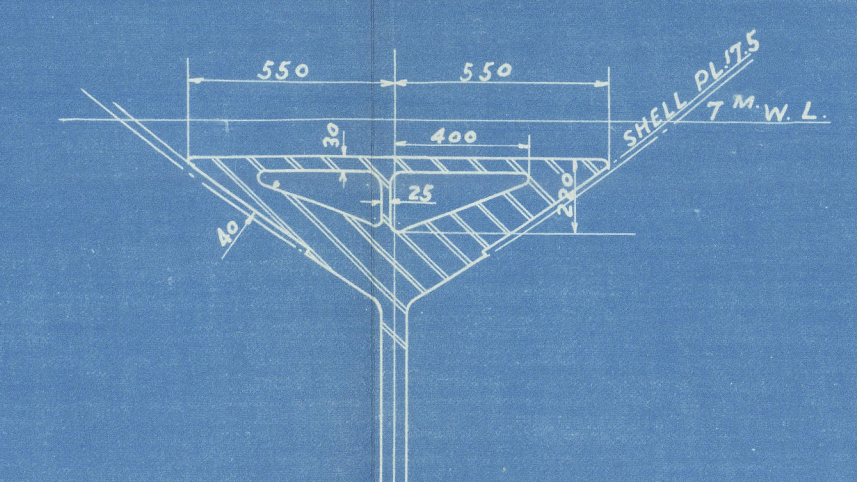
"A"
(LOOKING AFTWARD)



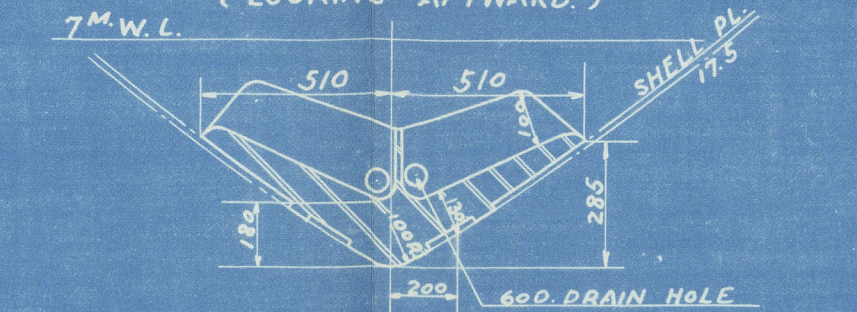
F.N.O.
(LOOKING AFTWARD)



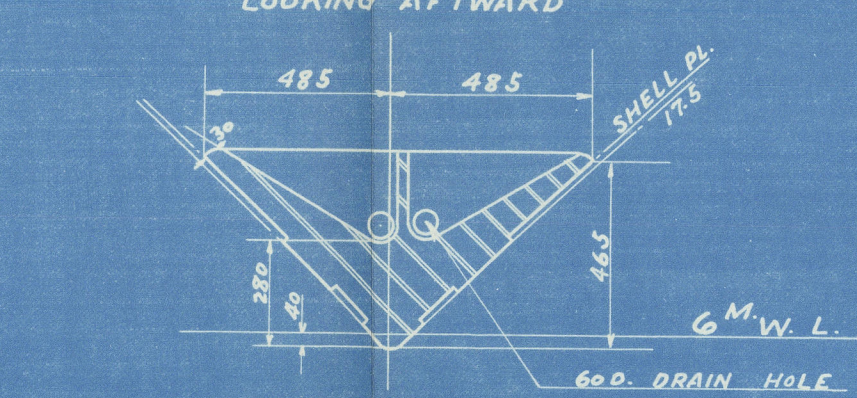
F.N.1
(LOOKING FORWARD)



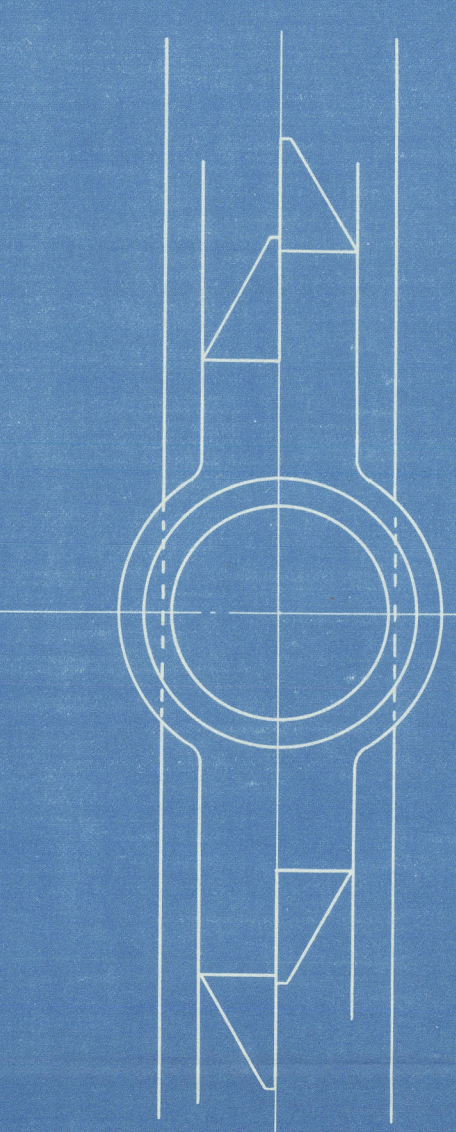
F.N.2
(LOOKING AFTWARD)



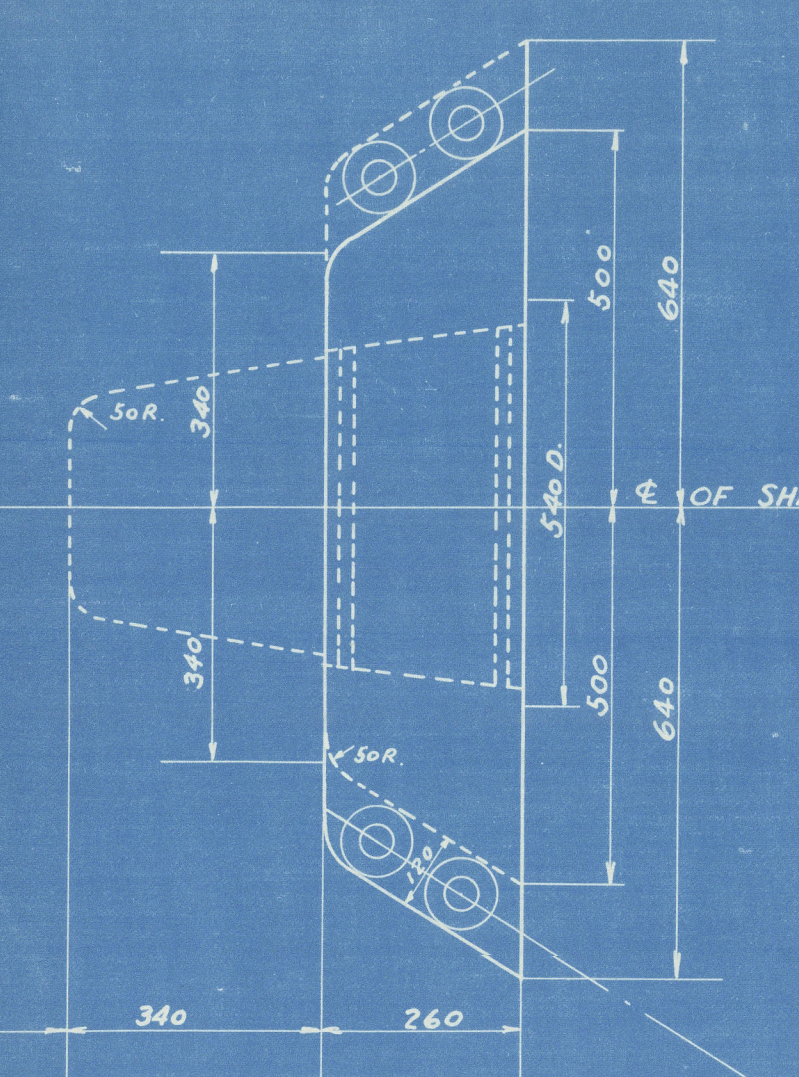
F.N.3
LOOKING AFTWARD



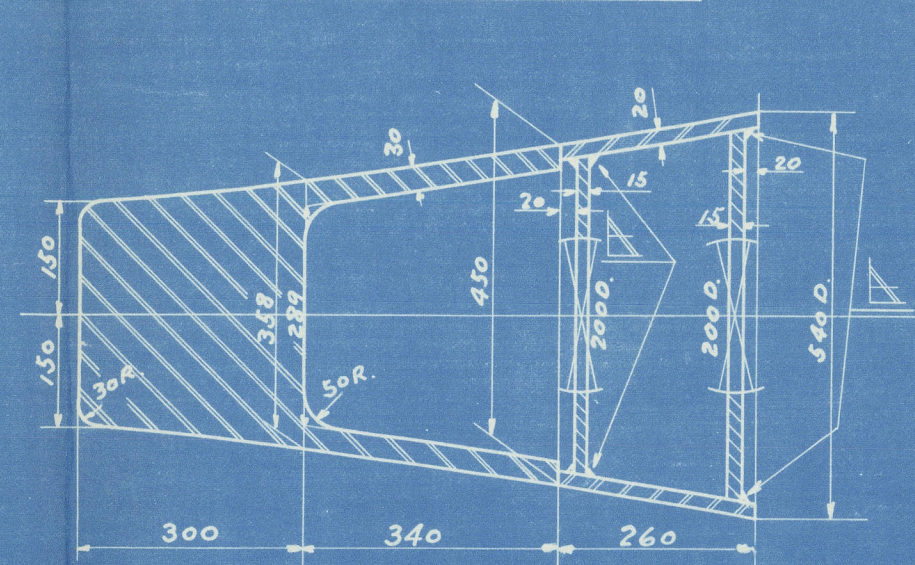
LOOKING AFTWARD



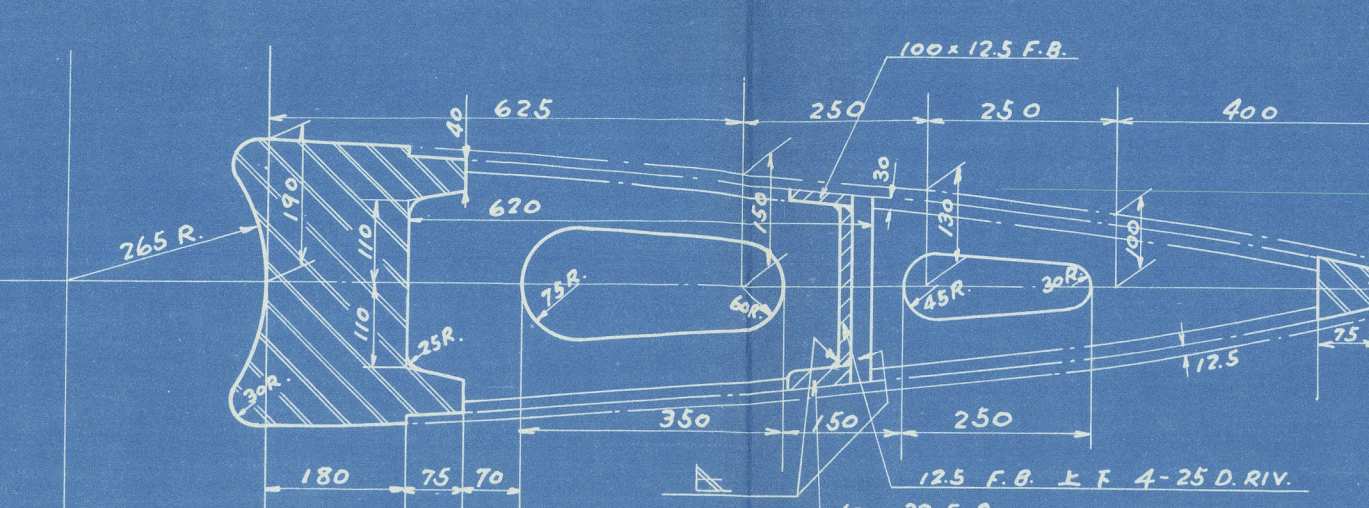
DETAIL OF RUDDER POST
AT PROPELLER SHAFT LINE
SCALE 1/10



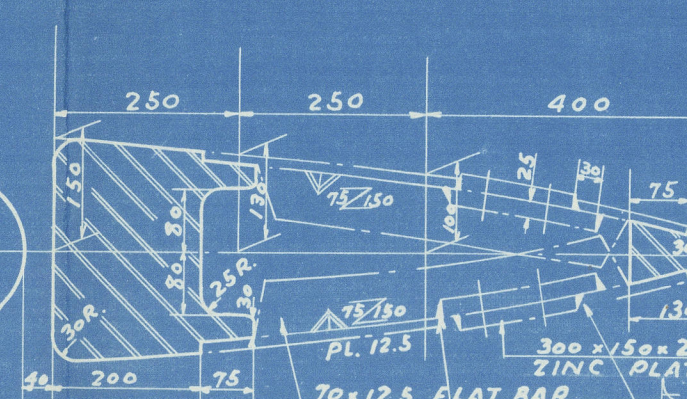
SECTION AT Φ OF SHAFT



SECTION AT 6" W.L.
SCALE 1/10



SECTION AT 1" W.L.
SCALE 1/10



NAGASAKI P.N. 8203

S. No 628.
M.S. "ARIMA MARU".
STERN FRAME
SCALE 1/20
DETAIL SCALE 1/10
140" x 19" x 10.5"
(FINISHED PLAN)

三菱重工業株式会社
長崎造船所
造船課 船体部
送り主
出図
出図日
2021

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NAGASAKI Rpt No 2203

S. No. 628.
M.S. "ARIMA MARU."

RUDDER

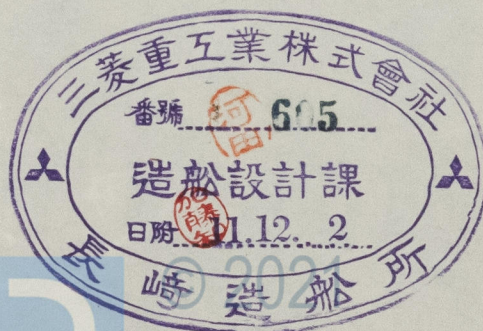
SCALE $\frac{1}{20}$

DETAIL SCALE $\frac{1}{10}$

140M. x 19M. x 10.5M.

(FINISHED PLAN.)

三菱重工業株式会社			
長崎造船所			
造船設計課商船係			
送り			
上 11.9.9	新 谷	播 多	
出 国 番 號			
出 国 日 附			



Lloyd's Register
Foundation

006589-006600-0201

S. No. 628.
M.S. "ARIMA MARU."
RUDDER
SCALE $\frac{1}{20}$
DETAIL SCALE $\frac{1}{10}$
140^M. x 19^M. x 10.5^M.
(FINISHED PLAN.)